

Claims

1. An imaging apparatus having:

GUI screen image generating means for generating a
5 GUI screen image having graphical user interface means
for operating the apparatus and displaying the GUI screen
image on image display means;

operating means for operating the GUI screen image
displayed on said image display means; and

10 controlling means for controlling the apparatus in
accordance with the operation of the GUI screen image by
said operating means, characterized by having:

storing means having stored therein hierarchy
type main menu information which is capable of setting
15 and operating desired functions by classifying functions
settable and operable in said imaging apparatus on the
basis of a predetermined category, displaying index
information of the classified functions in stages, and
selecting the displayed index information;

20 menu generating means capable of selecting
desired index information among the main menu information
in said storing means to generate unique menu
information; and

menu editing means capable of editing the
25 unique menu information generated by said menu generating
means, and characterized in that:

said controlling means controls said GUI screen
image generating means on detection of a predetermined
operation by said operating means, and

30 said GUI screen image generating means generates
the GUI screen image including the index information for

operating the menu editing means in said unique menu information, in accordance with the control by said controlling means, to display the GUI screen image on said image display means.

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2. The imaging apparatus as claimed in claim 1, characterized in that:

said menu editing means has a function of adding the index information to said unique menu information; a
10 function of deleting the index information; a function of rearranging a displayed position of the index information; and a function of initializing the unique menu information to predetermined menu information.

15 3. The imaging apparatus as claimed in claim 1, characterized in that:

said GUI screen image generating means generates a GUI screen image including the index information for operating said main menu information in said unique menu
20 information to display the GUI screen image on said image display means.

4. The imaging apparatus as claimed in claim 1, characterized in that:

25 said GUI screen image generating means has a function of adding the unique menu information generated by said menu generating means to the index information of said main menu information.

30 5. The imaging apparatus as claimed in claim 1, characterized in that:

said GUI screen image generating means has a function of adding the unique menu information generated by said menu generating means to the index information displayed at an arbitrary hierarchy of said main menu
5 information.

6. An imaging apparatus having:

GUI screen image generating means for generating a GUI screen image having graphical user interface means
10 for operating the apparatus to display the GUI screen image on image display means;

operating means for operating the GUI screen image displayed on said image display means; and

controlling means for controlling the apparatus in
15 response to the operation of the GUI screen image by said operating means, characterized by having:

storing means having stored therein hierarchy type main menu information which is capable of setting and operating desired functions by classifying functions
20 settable and operable in the imaging apparatus on the basis of a predetermined category, displaying index information of the classified functions in stages, and selecting the displayed index information, and list information in which setting items corresponding to the
25 index information are arranged in accordance with a display order of the main menu information and are displayed seamlessly, and characterized in that:

said controlling means controls said GUI screen image generating means on detection of a predetermined
30 operation by said operating means, and

said GUI screen image generating means generates

the GUI screen image for displaying setting items corresponding to the index information selected by said operating means from the list information in said storing means in response to the control by said controlling means to display the GUI screen image on said image display means.

7. The imaging apparatus as claimed in claim 6, characterized in that:

10 said GUI screen image for displaying the setting item corresponding to said index information has a function of scroll-displaying the setting items in accordance with a layout of said list information.

15 8. The imaging apparatus as claimed in claim 6, characterized in that:

 said GUI screen image for displaying the setting item corresponding to said index information carries out a graphic display indicative of its boundary in a case
20 where a setting item of adjacent index information in said main menu is displayed.

9. The imaging apparatus as claimed in claim 6, characterized in that:

25 said GUI screen image for displaying the setting item corresponding to said index information displays graphic information indicating the index information from which a setting item is able to be selected in a case where setting items of adjacent index information in said
30 main menu is displayed.

10. An imaging apparatus having:

GUI screen image generating means for generating a
GUI screen image having graphical user interface means
for operating the apparatus to display the GUI screen
5 image on image display means;

operating means for operating the GUI screen image
displayed on said image display means; and

controlling means for controlling the apparatus in
response to the operation of the GUI screen image by said
10 operating means, characterized in that:

said GUI screen image generated by said GUI screen
image generating means displays only a graphical user
interface for terminating the GUI screen image when the
operation by said operating means is not detected by said
15 controlling means, and displays only a graphical user
interface for determining the operation when the
operation by said operating means is detected by said
controlling means.

20 11. An imaging apparatus having:

GUI screen image generating means for generating a
GUI screen image having graphical user interface means
for operating the apparatus to display the GUI screen
image on image display means;

25 operating means for operating the GUI screen image
displayed on said image display means; and

controlling means for controlling the apparatus in
response to the operation of the GUI screen image by said
operating means, characterized by having:

30 storing means for storing graphic data
obtained by dividing a range of settable/adjustable

numeric data into a plurality of ranges, setting intervals based on the divided respective ranges, and changing shapes on the basis of this setting interval, and characterized in that:

5 said controlling means controls said GUI screen image generating means when detecting a predetermined operation by said operating means, and

 said GUI screen image generating means reads out the corresponding graphic data from the graphic data
10 stored in said storing means in accordance with the control by said controlling means, generates the GUI screen image to set the numeric data in accordance with the read out graphic data to display the GUI screen image on said image display means.

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12. An imaging apparatus having:

 GUI screen image generating means for generating a GUI screen image having graphical user interface means for operating the apparatus to display the GUI screen
20 image on image display means;

 operating means for operating the GUI screen image displayed on said image display means; and

 controlling means for controlling the apparatus in response to the operation of the GUI screen image by said
25 operating means, characterized by having:

 storing means having stored therein graphic data such as characters, figures and the like for representing functions and setting information in said imaging apparatus, table data for defining a priority
30 when the graphic data is displayed on the screen, and layout information of the graphic data, and characterized

in that:

said controlling means judges operation states and setting states of the respective sections of the imaging apparatus corresponding to the graphic data in accordance
5 with the priority of said table data on detection of a predetermined operation by said operating means, and selects graphic data to be displayed on the screen image among said graphic data, and

said GUI screen image generating means generates a
10 GUI screen image in which the selected graphic data is arranged on the basis of the layout information in said storing means in accordance with the control by said controlling means to display the GUI screen image on said image display means.

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13. An imaging apparatus having:

GUI screen image generating means for generating a GUI screen image having graphical user interface means, for operating the apparatus to display the GUI screen
20 image on image display means;

operating means for operating the GUI screen image displayed on said image display means; and

controlling means for controlling the apparatus in response to the operation of the GUI screen image by said
25 operating means, characterized in that:

said controlling means controls said GUI screen image generating means on detection of a predetermined operation by said operating means, and

said GUI screen image generating means generates a
30 GUI screen image in accordance with the operation detected by said controlling means to overlap-display the

generated GUI screen image on a forefront of said image display means.

14. The imaging apparatus as claimed in claim 13,
5 characterized in that:

said GUI screen image generating means generates a message notification screen image based on the operation detected by said controlling means, and overlap-displays the generated message notification screen image on the
10 forefront of said image display means only for a fixed time period.

15. The imaging apparatus as claimed in claim 13, characterized in that:

15 said GUI screen image generating means has a function of changing the respective GUI screen images into different colors and brightness when a plurality of GUI screen images is overlap-displayed.

20 16. An imaging apparatus having:

GUI screen image generating means for generating a GUI screen image having graphical user interface means for operating the apparatus to display the GUI screen image on image display means;

25 operating means for operating the GUI screen image displayed on said image display means; and

controlling means for controlling the imaging apparatus in response to the operation of the GUI screen image by said operating means, characterized by having:

30 folder information obtaining means for obtaining information of a folder in which a plurality of

image data recorded in a recording apparatus or a recording medium are classified, arranged, unified, and recorded;

index screen image generating means for
5 generating index image information capable of list-
displaying reduced images of the image data within the
folder; and

folder information generating means for
generating folder list information within the recording
10 apparatus or the recording medium, and characterized in
that:

said controlling means controls said folder
information obtaining means on detection of a
predetermined operation by said operating means,
15 said folder information obtaining means obtains the
information of said folder from said recording apparatus
or recording medium in accordance with the control by
said controlling means,

said index screen image generating means generates
20 index image information in accordance with the
information of the folder obtained by said folder
information obtaining means, and

said GUI screen image generating means generates a
GUI screen image for selecting and operating the image
25 data within said folder information generating means and
said folder on the basis of the index image information
generated by said index screen image generating means to
display the GUI screen image on said image display means.

30 17. The imaging apparatus as claimed in claim 16,
characterized in that:

when said folder information generating means is selected on the GUI screen image generated on the basis of said index image information, said GUI screen image generating means generates a GUI screen image for
5 selecting and altering a desired folder on the basis of the folder list information generated by said folder information generating means to display the GUI screen image on said image display means.

10 18. The imaging apparatus as claimed in claim 17, characterized in that:

said GUI screen image generated on the basis of said folder list information has an image data display section capable of displaying the image data within the
15 selected folder.